# **OPINION 2342** (Case 3585)

# Atomosia Macquart, 1838 (Insecta, Diptera, ASILIDAE): proposed conservation of usage

Abstract. The current usage of the generic name *Atomosia* Macquart, 1838 has been conserved for a well-established genus of robber flies. All type species fixations for *Atomosia* Macquart, 1838 prior to that of *Atomosia incisuralis* Macquart, 1838 by Coquillett (1910) have been set aside.

Keywords. Nomenclature; taxonomy; Diptera; ASILIDAE; Atomosia; Atomosia incisuralis; Cormansis; Aphestia; robber flies; Neotropical; Nearctic.

## Ruling

- (1) Under the plenary power the Commission has set aside all type species fixations for the nominal genus *Atomosia* Macquart, 1838 before that of *Atomosia incisuralis* Macquart, 1838 by Coquillett (1910).
- (2) The name *Atomosia* Macquart, 1838 (gender: feminine), type species *Atomosia incisuralis* Macquart, 1838 by subsequent designation by Coquillett (1910), as ruled in (1) above, is hereby placed on the on the Official List of Generic Names in Zoology.
- (3) The name *incisuralis* Macquart, 1838, as published in the binomen *Atomosia incisuralis* (specific name of the type species of *Atomosia* Macquart, 1838), as ruled in (1) above, is hereby placed on the Official List of Specific Names in Zoology.
- (4) The name ATOMOSIINI Lynch Arribálzaga, 1882 (type genus Atomosia Macquart, 1838) is hereby placed on the Official List of Family-Group Names in Zoology.

## History of Case 3585

An application to conserve the current usage of the generic name Atomosia Macquart, 1838 for a well-established genus of robber flies was received from Neal L. Evenhuis (J. Linsley Gressitt Center for Research in Entomology, Bishop Museum, Honolulu, Hawaii, U.S.A.) on 20 March 2012. After correspondence the case was published in BZN 69: 106–108 (June 2012). The title, abstract and keywords of the case were published on the Commission's website. No comments were received on this Case.

## **Decision of the Commission**

On 1 December 2013 the members of the Commission were invited to vote on the proposals published in BZN 69: 107. At the close of the voting period on 1 March 2014 the votes were as follows:

Affirmative votes – 23: Alonso-Zarazaga, Ballerio, Bouchet, Brothers, Fautin, Grygier, Halliday, Harvey, Kojima, Kottelat, Krell, Kullander, Lamas, Minelli, Pape, Patterson, Rosenberg, Štys, van Tol, Winston, Yanega, Zhang and Zhou.

Negative votes – 2: Bogutskaya and Lim. Ng and Pyle were on leave of absence.

Voting FOR, Grygier said that the number of described species of *Aphestia* was not stated and there was no testimony as to the importance of any species of *Atomosia* or *Aphestia* in contexts outside taxonomy. Such circumstances might favour the taxonomic solution (inter-generic transfer of the relevant species and erection of a new genus for the remainder) over use of the plenary power, but he would give the authors the benefit of the doubt in consideration of the large number of species of *Atomosia*. Also voting FOR, Pape explained that this was because the overlooked type species designation for *Atomosia* by Duponchel in d'Orbigny (1841) had been pointed out in a publication 25 years ago but was not accepted by anybody. Voting FOR, Fautin said that consistency would have suggested a vote against. However, in this instance, the author had argued that recognizing the original type species designation would change the taxonomic concept of the genus.

## **Original references**

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

- Atomosia Macquart, 1838, Diptères exotiques nouveaux ou peu connus. Tome premier.—2e partie. N.E. Roret, Paris. [3 October], p. 73.
- Atomosia, incisuralis, Macquart, 1838, Diptères exotiques nouveaux ou peu connus. Tome premier.—2e partie. N.E. Roret, Paris. [3 October], p. 73.
- ATOMOSIINI Lynch Arribálzaga, 1882, Boletín de la Academia Nacional de Ciencias de Córdoba, 4: 144.

The reference for the type species designation in this ruling:

Coquillett, D.W. 1910. The type-species of the North American genera of Diptera. Proceedings of the United States National Museum, 37: 512.



## **OPINION 2343** (Case 3586)

# Glossina Wiedemann, 1830 (Insecta, Diptera, GLOSSINIDAE): precedence given over Nemorhina Robineau-Desvoidy, 1830

Abstract. The Commssion has conserved the generic name *Glossina* Wiedemann, 1830 (Diptera, GLOSSINIDAE), widely used for a well-established and medically important genus of tsetse flies. Under the plenary power precedence is given to *Glossina* Wiedemann, 1830 over its infrequently used senior subjective synonym *Nemorhina* Robineau-Desvoidy, 1830.

Keywords. Nomenclature; taxonomy; Diptera; GLOSSINIDAE; Glossina; Nemorhina; Glossina longipalpis; Nemorhina palpalis; tsetse; Afrotropical.

#### Ruling

- (1) Under the plenary power precedence is given to the name *Glossina* Wiedemann, 1830 [1 September] over *Nemorhina* Robineau-Desvoidy, 1830 [26 June], whenever the two are considered to be synonymous or to be congeneric.
- (2) The following names have been placed on the Official List of Generic Names in Zoology:
  - (a) Glossina Wiedemann, 1830 [1 September] (gender: feminine), type species by monotypy Glossina longipalpis Wiedemann, 1830, with the endorsement that it is to be given precedence over Nemorhina Robineau-Desvoidy, 1830 [26 June], whenever the two are considered to be synonymous or to be congeneric;
  - (b) *Nemorhina* Robineau-Desvoidy, 1830 [26 June] (gender: feminine), type species by monotypy *Nemorhina palpalis* Robineau-Desvoidy, 1830, with the endorsement that it is not to be given priority over *Glossina* Wiedemann, 1830 [1 September], whenever the two are considered to be synonymous or to be congeneric.
- (3) The following names have been placed on the Official List of Specific Names in Zoology:

- (a) longipalpis Wiedemann, 1830, as published in the binomen Glossina longipalpis (specific name of the type species of Glossina Wiedemann, 1830 [1 September]);
- (b) palpalis Robineau-Desvoidy, 1830, as published in the binomen Nemorhina palpalis (specific name of the type species of Nemorhina Robineau-Desvoidy, 1830 [26 June]).
- (4) The name GLOSSINIDAE Theobald, 1903 is hereby placed on the Official List of Family-Group Names in Zoology (type genus *Glossina* Wiedemann, 1830).

#### History of Case 3586

An application to conserve the generic name *Glossina* Wiedemann, 1830 (Diptera, GLOSSINIDAE), widely used for a well-established and medically important genus of tsetse flies was received from Neal L. Evenhuis (*J. Linsley Gressitt Center for* 

Research in Entomology, Bishop Museum, Hawaii, U.S.A.) on 3 April 2012. After correspondence the case was published in BZN 69: 109-112 (June 2012). The title, abstract and keywords of the case were published on the Commission's website. The Case was sent for vote on 1 December 2013. A majority of Commissioners voted FOR the Case (22 For, 3 Against). One Commissioner split his vote. No comments were received on this Case.

#### **Decision of the Commission**

At the close of the voting period on 1 March 2014 the votes were as follows: Affirmative votes - 21: Alonso-Zarazaga, Ballerio, Bouchet, Brothers, Halliday, Harvey, Kojima, Kottelat, Krell, Kullander, Lamas, Minelli, Pape, Patterson, Rosenberg, Stys, van Tol, Winston, Yanega, Zhang and Zhou. Negative votes – 3: Bogutskaya, Fautin and Lim. Grygier split his vote: FOR (1) and (2); AGAINST (3) and (4). Ng and Pyle were on leave of absence.

Voting FOR, Brothers said that in Proposal (1), the wording should be amplified as follows, 'whenever the two are considered to be synonymous or to be congeneric' or some similar wording which would make it absolutely clear that the reversal of precedence also applies when the names are considered as distinct subgenera. Also voting FOR, Pape said that the Case should have mentioned, that because of the Principle of Coordination, reversal of precedence whenever Glossina and Nemorhina were considered as synonyms would also cover situations where both names were treated as subgenera and as such would have status as separate taxa.

Voting AGAINST, Fautin said that given that the genus Glossina was medically very important, the issue of the rank of Nemorhina was relevant. The authors, both being well acquainted with the Code, had not appropriately taken that into account in the wording of their appeal.

SPLITTING his vote, Grygier said that only the generic names were at stake, so under Article 78.4.2 he saw no necessity to put the type species of either genus on the Official List, nor the family name.

#### **Original references**

The following are the original references to the names placed on Official Lists and Indexes by the ruling given in the present Opinion:

Glossina Wiedemann, 1830 [1 September], Aussereuropäische zweiflügelige Insekten. Als Fortsetzung des Meigenschen Werkes. Erster Theil, Schulz, Hamm, p. 253.

GLOSSINIDAE Theobald, 1903, Memoirs of the Liverpool School of Tropical Medicine, 10(Appendix): ii.

longipalpis, Glossina, Wiedemann, 1830, Aussereuropäische zweiflügelige Insekten. Als Fortsetzung des Meigenschen Werkes. Erster Theil, Schulz, Hamm, p. 253.

Nemorhina, Robineau-Desvoidy, 1830 [26 June], Mémoires présentés par divers savants à l'Académie Royale des Sciences de l'Institut de France (Sciences Mathématiques et *Physiques*), (2)**2**: 289.

palpalis, Nemorhina, Robineau-Desvoidy, 1830, Mémoires présentés par divers savants à l'Académie Royale des Sciences de l'Institut de France (Sciences Mathématiques et *Physiques*), (2)**2**: 289.

# Official Correction to Opinions 278 and 382: the publication date amended for the genus-group names *Danaus*, *Heliconius*, *Nymphalis* and *Plebejus* (Insecta, Lepidoptera) from Kluk (1802) to Kluk (1780)

Abstract. Under Article 80.4 of the Code, the publication date for the names *Danaus*, *Heliconius*, *Nymphalis* and *Plebejus* is corrected to Kluk (1780), rather than Kluk (1802) and the spelling of the butterfly genus name *Plebejus* confirmed. These names were formerly treated in Opinions 124, 278, 382 and 450.

Keywords. Nomenclature; NYMPHALIDAE; LYCAENIDAE; NYMPHALINAE; DANAINAE; Heliconius; Nymphalis; Danaus; Plebejus; Plebeius; Plebeyus; butterflies; Kluk.

A letter was received from Emilio Balletto & Simona Bonelli (*Department of Life Sciences and Systems Biology, Via Accademia Albertina 13 – I-10123 Torino, Italy*, in April 2014 requesting an amendment to the entry on the Official List of Generic Names in Zoology for *Danaus, Heliconius, Nymphalis* and *Plebejus* to record that the correct publication date of the four lepidopteran generic names.

Emilio Balletto & Simona Bonelli provided the following information:

1. Opinion 124 (Smithsonian Miscellaneous Collections 73(8): 1–2, 28 October 1936) rejected the subdivisions of the genus *Papilio* used by Linnaeus in the tenth (1758) and following editions of *Systema naturae* as of (sub)generic value and thus as of date 1758. This point of view was reinforced in Opinion 279 (Opinions and Declarations 6: 179–188, 1 October 1954b) stating that any term placed between the generic and the specific name in the zoological works of Linnaeus and Fabricius was to be deemed unavailable as a name of (sub)generic value. However, in Opinion 124, the Commission also declared that it was 'prepared to take up individual cases under arguments which may be submitted' (Smithsonian Miscellaneous Publications 73(8): 2).

2. As concerns Lepidoptera, an application was submitted by Franclemont (1952), asking the Commission to validate under the plenary power, as from Linnaeus (1758) and as of (sub)generic value, the names used by this author for groups of species in the genus Phalaena, i.e. Bombyx, Noctua, Geometra, Tortrix, Pyralis, Tinea and Alucita, and as from 1767 the name Attacus, similarly published by Linnaeus. This application was opposed by Paclt (1952; re-published in 1957 as an appendix to Opinion 450, Opinions and Declarations 15(15): 251-328, 8 March 1957) on the ground that, 'if we accept any of these terms as being the names of subgenera, we should be bound logically to adopt the same course by analogy in the case of the terms used by Linnaeus for subdivisions of the genus Papilio', i.e. (1) Barbarus; (2) Eques; (3) Heliconius; (4) Danaus; (5) Nymphalis; (6) Plebejus. Of these, as noted by Paclt, the first two 'have been disregarded for many years', whereas the other four are still firmly in use and are all available as from Kluk (1802), as fixed by the Commission with the same Opinion 450 and typified in Opinions 278 (Danaus, Nymphalis and Plebejus) and 382 (Heliconius) (Opinions and Declarations 6(10): 135-178, 1 October 1954).

3. In the meantime, Paclt discovered in the Central Library of the Jagellonian University (Krakow) a copy of what seems to be the first edition of Kluk's work,

dated in the front page as of 1780 (Paclt, 1955). This information apparently was unknown to the Commission at least until Opinion 450 was published in 1957, even though Tutt (1906b, p. 304) had long before cited references from another copy of this edition (he erroneously cited *Plebeius* as from p. 81 in Kluk (1780), actually on p. 89). An unexpected problem thus arose, as in the copy of Kluk (1780) cited by Paclt, one of these butterfly genus names was printed differently from the spelling adopted by Linnaeus, and by Kluk himself in the 1802 edition, i.e. *Plebeius*, rather than *Plebejus* (cf. Linnaeus, 1758, pp. 483–485).

4. Following Paclt's (1955) discovery, some authors started citing this name as *Plebeius* Kluk, 1780, thus correcting both name spelling and publication date in respect to the entry *Plebejus* Kluk, 1802 listed in the 'Official Lists and Indexes of Names in Zoology' (Opinion 278, Opinions and Declarations, **6**(1): 135–178, 1 October 1954) (see also the Official Lists at http://iczn.org/sites/iczn.org/files/ officialists.pdf).

5. Crotch (1872, p. 60) was the first author to list *Papilio argus* Linnaeus, 1758 (p. 483) as the type species of *Plebeius* Kluk, 1780, even though he attributed this typification to Cuvier, who did not use binominal nomenclature. Kirby (1896, p. 87) shared a similar view, but proceeded to a more formal typification (see also Tutt, 1906a). Finally Hemming (1933, p. 224) designated *Papilio argus* Linnaeus, 1758 as the type species of *Plebejus* thereby making the two genus group names objective synonyms. Opinion 278 adopted the latter solution.

6. There are at least two distinct printings of Kluk (1780). The copy discovered by Tutt (1906b) was apparently identical to the copy found by Paclt (currently not available from the library of the Jagellonian University (see Bálint et al., 2001). A reprint of this edition is now available online http://delta.cbr.edu.pl/dlibra/ doccontent?id=672&dirids=8 (at the agricultural library, Poland). A different printing is also currently available online http://books.google.it/books/about/Zwierz%C 4%85t\_domowych\_i\_dzikich\_osobliwie\_k.html?id=S5s5AAAAcAAJ&redir\_esc=y), from the Bavarian State Library, with a different title-page from the one reproduced by Paclt (1955) and one in the Central Agricultural Library in Warsaw. In this copy the name *Plebejus* is spelled with a 'j', identical to the spelling in Linnaeus (1758) and in accordance with the largely prevalent usage, at least prior to the publication by Paclt (1955). In the third edition of Kluk's work (1802) this name is spelled *Plebeyus* 

204

(Beuret 1961, p. 318; see also Bálint et al., 2001).

7. Eventually, Bálint et al. (2001) suggested that this name should be cited as *Plebejus* Kluk, 1780, applying the First Reviser Rule to determine precedence under Article 80.6.4. Even though such a proposal could be acceptable, since Opinion 278 (1954a) was based on apparently incomplete information, Bálint et al. failed to submit a formal application to this effect. The present application is aimed at fixing this spelling and publication date through an Official Correction to be issued by the Commission under Article 80.4.

8. Whereas the problem is more relevant for *Plebejus*, because of the existence of spelling variants, we think that the change of date consequent to recognizing Kluk (1780) rather than Kluk (1802) as the relevant source publication must also apply to the other three lepidopteran genera, *Heliconius*, *Nymphalis* and *Danaus*.

In accordance with Article 80.4 of the Code, which states that the Commission can publish an Official Correction of an error or omission in an Opinion without further vote when the correction does not negate the Opinion or its consequences, notice is hereby given that:

- (1) the corresponding entries in the 'Official Lists of Indexes and Names in Zoology' are corrected to read:
  - DANAIDAE (correction of DANAIDES) Boisduval, [1833], Icon. hist. Lépid. Europ., 1(9): 84 (type genus: Danaus Kluk, 1780) (Insecta, Lepidoptera). Direction 99; Official Correction BZN 71, September 2014.
  - DANAIDES Boisduval, [1833], *Icon. hist. Lépid. Europ.*, 1(9): 84 (type genus: *Danaus* Kluk, 1780) (an incorrect original spelling for DANAIDAE Boisduval, [1833]). Direction 99; Official Correction BZN 71, September 2014.
  - DANAIDIDAE Reuter, 1897, Acta Soc. Sci. fenn., 22: 301 (type genus: Danaus Kluk, 1780) (an incorrect subsequent spelling for DANAIDAE Boisduval, [1833]). Direction 99; Official Correction BZN 71, September 2014.
  - plexippus, Papilio, Linnaeus, 1758, Systema Naturae, Ed. 10, vol. 1, p. 471, as interpreted by the neotype designated under the plenary power, namely the male specimen figured by Clark, 1941 (*Proc. U.S. nat. Mus.*, 90: pl. 71, fig. 1) and refigured in Opinion 282, pl. 2 (type locality: 'Pennsylvania') (specific name of the type species of *Danaus* Kluk, 1780) (Insecta, Lepidoptera). Op. 282; Official Correction BZN 71, September 2014.
  - Apostraphia Hübner, 1816, Verz. bekannt. Schmett., (1): 13 (a junior objective synonym of *Heliconius* Kluk, 1780). Op. 382; Official Correction BZN 71, September 2014.
  - *charithonia, Papilio,* Linnaeus, 1767, *Systema Naturae*, Ed. 12, vol. 1, part 2, p. 757 (specific name of the type species of *Heliconius* Kluk, 1780) (Insecta, Lepidoptera). Op. 382; Official Correction BZN **71**, September 2014.
  - Heliconia Godart, 1819, Ency. méth., 9 (Ins.): 203 (a junior objective synonym of Heliconius Kluk, 1780). Op. 382; Official Correction BZN 71, September 2014.
  - HELICONIDAE Swainson, 1827, *Phil. Mag.* (n.s.), **1**: 187 (type genus: *Heliconius* Kluk, 1780) (an incorrect original spelling for HELICONIIDAE Swainson, 1827). Direction 54; Official Correction BZN **71**, September 2014.
  - HELICONIIDAE (correction of HELICONIDAE) Swainson, 1827, *Phil. Mag.* (n.s.), 1:187 (type genus: *Heliconius* Kluk, 1780) (Insecta, Lepidoptera). Direction 54; Official Correction BZN 71, September 2014.
  - Heliconius Kluk, 1780, Zwierz. Hist. nat. pocz. gospod., 4: 82 (gender: masculine) (type species, by designation by Hemming, 1933 (Entomologist, 66: 223): Papilio charithonia Linnaeus, 1767, Systema Naturae, Ed. 12, vol. 1, part 2, p. 757) (Insecta, Lepidoptera). Op. 382; Official Correction BZN 71, September 2014.
  - Heliconius Latreille, 1804, Nouv. Dict. Hist. nat., 24 (Tab.): 185, 199 (a junior homonym of Heliconius Kluk, 1780). Op. 382; Official Correction BZN 71, September 2014.

- NYMPHALIDAE Swainson, 1827, *Phil. Mag.* (n.s.), 1(2): 187 (type genus: *Nymphalis* Kluk, 1780) (Insecta, Lepidoptera). Direction 99; Official Correction BZN 71, September 2014.
- Nymphalis Kluk, 1780, Zwierz. Hist. nat. pocz. gospod., 4: 86 (gender: masculine) (type species, by designation by Hemming, 1933 (Entomologist, 66: 223): Papilio polychloros Linnaeus, 1758, Systema Naturae, Ed. 10, vol. 1, p. 477) (Insecta, Lepidoptera). Op. 278, Official Correction BZN 71, September 2014.
- *polychloros, Papilio,* Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 477 (specific name of the type species of *Nymphalis* Kluk, 1780) (Insecta, Lepidoptera). Op. 278; Official Correction BZN 71, September 2014.
- Plebejus Kluk, 1780, Zwierz. Hist. nat. pocz. gospod., 4: 89 (gender: masculine) (type species, by designation by Hemming, 1933 (Entomologist, 66: 224): Papilio argus Linnaeus, 1758, Systema Naturae, Ed. 10, vol. 1, p. 483, as interpreted by reference to the male genitalia figured by Chapman, 1909 (in Tutt, Nat. Hist. brit. Butts., 3: pl. xx, fig. 1)) (Insecta, Lepidoptera). Op. 278; Official Correction BZN 71, September 2014.

- argus, Papilio, Linnaeus, 1758, Systema Naturae, Ed. 10, vol. 1, p. 483, as interpreted by reference to the male genitalia figured by Chapman, 1909 (*in* Tutt, Nat. Hist. brit. Butts., 3: pl. XX, fig. 1) (specific name of the type species of Plebejus Kluk, 1780) (Insecta, Lepidoptera). Op. 269; Official Correction BZN 71, September 2014.
- (2) The Commission has accepted the printed edition of Kluk (1780) from the Bavarian State Library currently accessible at http://books.google.it/books/ about/Zwierz%C4%85t\_domowych\_i\_dzikich\_osobliwie\_k.html?id=S5s5AAA AcAAJ&redir\_esc=y as the source edition for the names amended in (1).

#### Acknowledgments

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- ICZN. 1954a. Opinion 278. Addition to the "Official list of generic names in Zoology' of the names of ten genera of the sub-order Rhopalocera of the order Lepidoptera (class Insecta), species of which were cited in the undated leaflet commonly known as the 'Tentamen ', prepared by Jacob Hübner, which is believed to have been distributed to correspondents in 1806, a leaflet rejected in 'Opinion 97'. *Opinions and Declarations rendered by the International Commission on Zoological Nomenclature*, 6(I): 135–178.
  ICZN. 1954b. Opinion 279. Rejection, as of the status of a subgeneric name, of any term placed between the generic name and the specific name of a species in the zoological works of Linnaeus and Fabricius (J.C.) ('opinion' supplementary to "opinion' 124). *Opinions and Declarations contexpendered by the International Commission on Zoological Nomenclature*, 6 (II): 179–188.

- ICZN. 1956. Opinion 382. Validation under the plenary powers of the Generic name 'Sicyonia' Milne Edwards (H.), 1830 (Class Crustacea, Order Decapoda) and action consequential thereon. *Opinions and Declarations rendered by the International Commission on Zoological Nomenclature*, **12**(3): 43–58.
- ICZN. 1957. Opinion 450. Suppression under the plenary powers of the generic name 'Phalaena' Linnaeus, 1758, and validation as of subgeneric status (a) as from 1758, of the terms 'Bombyx', 'Noctua ', 'Geometra', 'Tortrix', 'Pyralis', 'Tinea ' and 'Alucita', as used by Linnaeus for groups of species of the genus 'Phalaena' and (b) as from 1767 of the term 'Attacus' similarly published by Linnaeus and matters incidental thereto (Class Insecta, Order Lepidoptera). Opinions and Declarations rendered by the International Commission on Zoological Nomenclature, **15**(15): 251–328.